

APPLICATION TO DISCHARGE INDUSTRIAL WASTEWATER TO GROUND WATER

This application is for a wastewater discharge permit as required by Chapter 90.48 RCW and Chapter 173-216 WAC. It is designed to provide the Department of Ecology with information on pollutants in the waste stream, materials that may enter the waste stream, the flow characteristics of the discharge, and site characteristics at the point of discharge.

Information previously submitted to Ecology that applies to this application should be referenced in the appropriate section. Ecology may request additional information to clarify the conditions of this discharge.

	S	ECT	ION A. G	ENER	AL I	NFORM	IATION		
1.	Applicant Name:								
2.	Facility Name: (if different from Ap	plicant)							
3.	Applicant Addres	ss:	Street						
	B 111		City/State					Zip	
4.	Facility Address:		Street						
			City/State					Zip	
5.	Latitude/longitud	e of the	treatment facil	ity:			UBI No		
		о	_'" N _	о	<u> </u>	" W			
	Latitude/longitud	e of lan	d application ar	rea (cente	r):				
		0	<u>'</u> "N _	<u> </u>	'	" W			
FOR	OFFICE USE ONLY		Check One	New/Re	enewal	Modificat	ion		
	Application Received				pplication/	Permit No.			

6.	Cont	act person:		
Naı	me			Title
Tel	ephone	Number Fax Number		Email
7.	Chec	k One:		
		Permit Renewal (including renewal of	emporary permits)	
		Does this application request a greater pollutant discharge, or a discharge of application for this facility?	liffer <u>ent</u> pollutants t	
		For permit renewals, the current permit	t is an attachment, b	y reference, to this application.
		Permit Modification		
		Existing Unpermitted Discharge		
		Proposed Discharge		
		Anticipated date of discharge:		
supe eval syste to t sign	ervisio luate t em, or he bes lifican	nder penalty of law that this document of in accordance with a system designed the information submitted. Based on those persons directly responsible for st of my knowledge and belief, true, to penalties for submitting false information for knowing violations.	d to assure that qua my inquiry of the p gathering the inforn accurate, and com	lified personnel properly gather and person or persons who manage the mation, the information submitted is, uplete. I am aware that there are
Signa	ture*		Date	Title
Printe	ed Name			
leve title	l of vi s do n	ons must be signed as follows: Corporce-president; partnership, by a general pot apply within your organization, the acisions for this facility.	partner; sole propriet	torship, by the proprietor. If these

To receive this document in an alternate format, contact the Water Quality Program at (360) 407-6401 (Voice) or 711 or 1-800-833-6388 (TTY).

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SECTION B. PRODUCT INFORMATION

·		ssification Manual, 1987 ed.).	
T:_4			
L1St r	raw materials and produ	ects used at this facility:	
List r	raw materials and produ Type	RAW MATERIALS	Quantity
List r			Quantity
LIST			Quantity
LIST			Quantity
LIST			Quantity
List r			Quantity
List r			Quantity
List r			Quantity Quantity
List r	Туре	RAW MATERIALS	
List r	Туре	RAW MATERIALS	
List r	Туре	RAW MATERIALS	
LIST I	Туре	RAW MATERIALS	
List r	Туре	RAW MATERIALS	

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SECTION C. PLANT OPERATIONAL CHARACTERISTICS

1. For each process listed in B.1. that generates wastewater, list the process, assign the waste stream a name and an ID # and describe whether it is a batch or continuous flow.

Process	Waste Stream Name	Waste Stream ID#	Batch (B) or Continuous (C) Process

On a separate sheet, (*label as attachment C.2*), produce a schematic drawing showing production processes, water flow through the facility and wastewater treatment devices. The drawing should indicate the source of intake water and the operations contributing wastewater to the effluent. The treatment units should be labeled. Construct the water balance by showing average flows between intakes, operations, treatment units, and points of discharge to land. If a water balance cannot be determined (*e.g.*, for certain mining activities), provide a description of the nature and amount of any sources of water and any collection or treatment measures.
 What is the maximum daily discharge flow? ______ gallons/day?
 What is the maximum average monthly discharge flow (daily flows averaged over a month)? _____ gallons/day?
 Describe any planned wastewater treatment improvements or changes in wastewater disposal methods, and the schedule for these improvements or changes. (*Use additional sheets, if necessary, and label as attachment C.4.*)

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5. If production processes are subject to seasonal variations, provide the following information. List discharge for each waste stream in gallons per day (GPD). The combined value for each month should equal the estimated total monthly flow.

	W4- C4 ID#				<u> </u>		MON	NTHS					
,	Waste Stream ID#	J	F	M	A	M	J	J	A	S	0	N	D
	Estimated Total												
M	onthly Flow (GPD)												
7.	How many weeks List all incidental a on site. (List only For solvents and so the quantity used. Materials/Quantity	materia those w olvent- (Use a	lls, such with quanties based of addition	h as oil antities cleaners	, paint, greate s, inclu	grease r than 1 ide a co	, solve 0 gallo py of t	nts, and ons for he mate	liquids erial sa	and 50 fety da) pounc ta shee	ds for s	olids.)
8.	Some types of faci a. A Spill Prevent b. An Emergency c. A runoff, spilla Any spill or pol federal authorit	tion, Co Responge, or l	ontrol, nse Pla eak co preven	and Co n (per 'ntrol pl	unterm WAC l an (per an requ	neasure 173-303 r WAC	Plan (4 3-350)? 173-21	40 CFR) 16-110((f))?		yES YES YES YES YES		10 10 10 10

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e. A Solid Waste Management Plan?

YES NO

SECTION D. WATER CONSUMPTION AND WATER LOSS

1.	water source(s):		
	Public System (Specify)		
	Private Well	Surface Water	
	a. Water Right Permit Number	::	
	b. Legal Description of Water	Source:	
	1/4S,1/4E,	_, Section, TWN, R	
2.	Water use		
	a. Indicate total water use:	Gallons per day (average)	
		Gallons per day (maximum)	
	b. Is water metered?	YES NO	

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SECTION E. WASTEWATER INFORMATION

1.	low are the water intake and effluent flows measured?	!
	ntake:	
	Effluent:	

2. Provide measurements for treated wastewater prior to land application for the parameters with an "X" in the left column. Use the analytical methods given in the table unless an alternate method is approved by Ecology. All analyses (except pH) must be conducted by a laboratory registered or accredited by the Department of Ecology (WAC 173-216-125). If this is an application for permit renewal, provide data for the last year for parameters that are routinely measured. For parameters measured only for this application, place values under "Maximum".

X	Parameter	Conc	entrations Measu	ıred	Number of	Analytical Method	Detection
71	T di diffetti	Minimum	Maximum	Average	Analyses	Std. Methods 19th edition	Limit
	BOD (5 day)					5210	2 mg/l
	COD					5220 B, C, or D	5 mg/l
	Total Suspended Solids					2540D	1 mg/l
	Total Dissolved Solids					2540 C	
	Conductivity					2510 B	
	Ammonia-N					4500-NH ₃ C	20 μg/l
	рН					4500-Н	0.1 units
	Total Residual Chlorine					4500-Cl E	1 mg/l
	Fecal Coliform					9222 D	
	Total Coliform					9221 B or 9222 B	
	Dissolved Oxygen					4500-O C or 4500-O G	
	Nitrate + Nitrite-N					4500-NO ₃ E	0.5 mg/l
	Total Kjeldahl N					4500-N _{org}	20 μg/l
	Ortho-phosphate-P					4500-P E or 4500-P F	1 μg/l
	Total-phosphate-P					4500-P B.4.	1 μg/l
	Total Oil & Grease					5520 C	0.2 mg/l

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X	Parameter	Conc	entrations Meas	ured	Number of Analyses	Analytical Method Std. Methods 19th edition	Detection Limit
		Minimum	Maximum	Average	3	Sta. Methods 19th edition	Limit
	Total Petroleum Hydrocarbon					5520 C, F	0.2 mg/l
	Calcium					3500-Ca B	3 μg/l
	Chloride					4500-C1 C	0.15 μg/l
	Fluoride					4500-F D	0.1 mg/l
	Magnesium					3500-Mg B	0.5 μg/l
	Potassium					3500-K B	5 μg/l
	Sodium					3500-Na B	2 μg/l
	Sulfate					4500-SO ₄ E	1 mg/l
	Barium (total)					3500-Ba B	30 μg/l
	Cadmium (total)					3500-Cd B	5 μg/l
	Chromium (total)					3500-Cr B	50 μg/l
	Copper (total)					3500-Cu B	20 μg/l
	Iron (total)					3500-Fe B	20 μg/l
	Lead (total)					3500-Pb B	100 μg/l
-	Manganese (total)					3500-Mn B	10 μg/l
	Mercury					3500-Hg B	0.2 μg/l
	Selenium (total)					3500-Se C	2 μg/l
	Silver (total)					3500-Ag B	10 μg/l
	Zinc (total)					3500-Zn B	5 μg/l

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3. Describe the collection met	Describe the collection method for the samples analyzed above (<i>i.e.</i> , grab, 24-hour composite).							
		· 1 · · · · · · · · · · · · · · · · · ·						
•	zed for any other parameters than those	•						
when? (Attach results and YES NO	label attachment E.4.) Note: Ecology	may require additional testing.						
manufacturing process, or a	f the following chemicals as raw mater are they present in the wastewater? (The ice (CAS) reference number to aid in its	e number following the chemical name						
YES NO								
	nemical is used and the quantity use	d or produced:						
if yes, specify flow the ci	iemical is used and the quantity use	d of produced.						
Acrylamide/79-06-1	N-nitrosodiethanolamine/	Heptachlor/76-44-8						
Acrylonitrile/107-13-1	1116-54-7	Heptachlor epoxide/1024-57-3						
Aldrin/309-00-2	N-nitrosodiethylamine/55-18-5	Hexachlorobenzene/118-74-1						
Aniline/62-53-3	N-nitrosodimethylamine/62-75-9	Hexachlorocyclohexane (alpha)/						
Aramite/140-57-8	N-nitrosodiphenylamine/86-30-6	319-84-6						
Arsenic/7440-38-2	N-nitroso-di-n-propylamine/	Hexachlorocyclohexane (tech.)/						
Azobenzene/103-33-3	621-64-7	608-73-1						
Benzene/71-43-2	N-nitrosopyrrolidine/930-55-2	Hexachlorodibenzo-p-dioxin,						
Benzidine/92-87-5	N-nitroso-di-n-butylamine/	mix/19408-74-3						
Benzo(a)pyrene/50-32-8	924-16-3	Hydrazine/hydrazine sulfate/						
Benzotrichloride/98-07-7	N-nitroso-n-methylethylamine/ 10595-95-6	302-01-2 Lindane/58-89-9						
Benzyl chloride/100-44-7 Bis(chloroethyl)ether/111-44-4	PAH/NA	2 Methylaniline/100-61-8						
Bis(chloromethyl)ether/542-88-1	PBBs/NA	2 Methylaniline hydrochloride/						
Bis(2-ethylhexyl) phthalate/	PCBs/1336-36-3	636-21-5						
117-81-7	1,2 Dichloropropane/78-87-5	4,4' Methylene bis(N,N-						
Bromodichloromethane/75-27-4	1,3 Dichloropropene/542-75-6	dimethyl)aniline/101-61-1						
Bromoform/75-25-2	Dichlorvos/62-73-7	Methylene chloride						
Carbazole/86-74-8	Dieldrin/60-57-1	(dichloromethane)/75-09-2						
Carbon tetrachloride/56-23-5	3,3' Dimethoxybenzidine/119-90-4	Mirex/2385-85-5						
Chlordane/57-74-9	3,3 Dimethylbenzidine/119-93-7	O-phenylenediamine/106-50-3						
Chlorodibromomethane/124-48-1 Chloroform/67-66-3	1,2 Dimethylhydrazine/540-73-8 2,4 Dinitrotoluene/121-14-2	Propylene oxide/75-56-9						
Chlorthalonil/1897-45-6	2,6 Dinitrotoluene/606-20-2	2,3,7,8-Tetrachlorodibenzo-p-dioxi n/ 1746-01-6						
2.4-D/94-75-7	1,4 Dioxane/123-91-1	Tetrachloroethylene/127-18-4						
DDT/50-29-3	1,2 Diphenylhydrazine/122-66-7	2,4 Toluenediamine/95-80-7						
Diallate/2303-16-4	Endrin/72-20-8	o-Toluidine/95-53-4						
1,2 Dibromoethane/106-93-4	Epichlorohydrin/106-89-8	Toxaphene/8001-35-2						
1,4 Dichlorobenzene/106-46-7	Ethyl acrylate/140-88-5	Trichloroethylene/79-01-6						
3,3' Dichlorobenzidine/91-94-1	Ethylene dibromide/106-93-4	2,4,6-Trichlorophenol/88-06-2						
1,1 Dichloroethane/75-34-3	Ethylene thioureae/96-45-7	Trimethyl phosphate/512-56-1						
1,2 Dichloroethane/107-06-2	Folpet/133-07-3	Vinyl chloride/75-01-4						
Nitrofurazone/59-87-0	Furmecyclox/60568-05-0							

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Are any other pesticides, herbicides or fungicides used at this facility? If yes, specify the material and quantity used.	YES NO
Are there other pollutants that you know of or believe to be present? If yes, specify the pollutants and their concentration if known (attach laboratory analyses if available):	YES NO DON'T KNO

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SECTION F. GROUND WATER INFORMATION

Provide available data measurements or ranges from monitoring wells or supply wells in the area of discharge. Provide the analytical method and detection limit, if known. Provide the location of each well on the map required in G.3 below. Attach well logs and well I.D. # when available. Copy this page as necessary for each well.

Parameter	Range of Measurements	Number of Analyses	Analytical Method	Detection Limit
BOD (5 day)				
COD				
Total Organic Carbon				
Ammonia-N				
pН				
Total Dissolved Solids				
Conductivity				
Total Hardness				
Fecal Coliform				
Total Coliform				
Dissolved Oxygen				
Nitrate + Nitrite-N, Nitrate				
Total Kjeldahl N				
Ortho-phosphate-P				
Total-phosphate-P				
Total Petroleum Hydrocarbon				
Calcium				
Chloride				
Fluoride				
Magnesium				
Potassium				
Sodium				
Sulfate				
Barium				
Cadmium				
Chromium				
Copper				
Iron				
Lead				
Manganese				
Mercury				
Selenium				
Silver				
Zinc				
Water Level				

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SECTION G. SITE ASSESSMENT

Note: The Department of Ecology Water Resources Section can be consulted for identifying wells within one mile of your site. The local library and local city or county planning offices may be helpful in providing the information required in this section.

Give the legal description of the land treatment site(s) by section/township/range and latitude/longitude. Indicate owner for each site. Give the acreage of each land treatment site(s). Attach a copy (<i>label attachment as G.1</i>) of the contract(s) authorizing use of land for treatment.
If this is a new discharge, list all environmental control permits or approvals needed for this project; for example, SEPA review, septic tank permits, sludge application permits, or air emissions permits

- 3. Attach an original United States Geological Survey (USGS) 7.5 minute topographic map. (*Label as attachment G.4.*) **USGS topographical maps are available from the Department of Natural Resources (360 902-1234), Metsker Maps (206-588-5222), and some local bookstores and internet sites.** Show the following on this map:
 - a. Location and name of internal and adjacent streets.
 - b. Surface water drainage systems within ¼ mile of the site.
 - c. All wells within 1 mile of the site.
 - d. Wastewater discharge points.
 - e. Land uses and zoning adjacent to the wastewater application site.
 - f. Ground water gradient.
- 4. Describe soils on the site using information from local soil survey reports. **Soils information is available from your county conservation district**. (Submit on separate sheet and label as attachment G.4.)
- 5. Describe the local geology and hydrogeology within one mile of the site. Include any ground water quality data. **The local library or soil conservation service may have this information**. (Submit on separate sheet and label as attachment G.5.)

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6. List the names and addresses of contractors or consultants who provided information sources of information by title and author.				mation, and cite
		SECTION	N H. STORMWATER	
1.		you have coverage under the Wash DES General Permit?	ington State Industrial Stormwater	YES NO
	If y	es, please list the permit number he	ere	
		o, have you applied for coverage ur rmwater NPDES General Permit?	nder the Washington State Industrial	YES NO
No	te: If	f you answered "no" to both questic	ons above, complete questions 2 through	h 6.
2.	Des	scribe the size of the stormwater col	llection area:	
	a.	Unpaved area	sq.ft.	
	b.	Paved area	sq.ft.	
	c.	Other collection areas (roofs)	sq.ft.	
3.	Doe	es your facility's stormwater dischar	rge to: (Check all that apply)	
		Storm sewer system; name of stor	rm sewer system (operator):	
		Directly to any surface waters of	Washington state (e.g., river, lake, creek	k, estuary, ocean).
		Specify waterbody name(s)		
		Indirectly to surface waters of Wa	ashington state (i.e., flows over adjacent	t properties first).
		Directly to ground waters of Wash	hington state by means of:	
		Dry well		
		Drainfield		
		Other		

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. Aı	reas with industrial activities at facility: (check of	all that apply)	
	Manufacturing building		
	Material handling		
	Material storage		
	Hazardous waste treatment, storage, or disposa	al (Refers to RCRA, Subtitle C Facilities Only)	
	Waste treatment, storage, or disposal		
Application or disposal of wastewaters			
	Storage and maintenance of material handling	equipment	
	Vehicle maintenance		
	Areas where significant materials remain		
	Access roads and rail lines for shipping and re	ceiving	
	Other:		
5. Ma	aterial handling/management practices		
a.	Types of materials handled and/or stored outc	doors: (check all that apply)	
	Solvents	Hazardous wastes	
	Scrap metal	Acids or alkalies	
	Petroleum or petrochemical products	Paints/coatings	
	☐ Plating products	☐ Woodtreating products	
	Pesticides	Other (please list):	
b.	Identify existing management practices emploischarges: (check all that apply)	oyed to reduce pollutants in industrial storm water	
	Oil/water separator	Detention facilities	
	Containment	Infiltration basins	
	Spill prevention	Operational BMPs	
	Surface leachate collection	Vegetation management	
	Overhead coverage	Other (please list):	
5. At	tach a map showing storm water drainage/collec	etion areas, disposal areas and discharge points	

This may be a hand-drawn map if no other site map is available. (Label this as attachment H.6.)

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SECTION I. OTHER INFORMATION

Describe storage areas for raw materials, products, Have you designated the wastes described abo Dangerous Waste Regulations, Chapter 173-3	
	, and wastes.
Commence of A44 along the The 4 March a Description	- 1 C This A 1: 4:
Summary of Attachments That May be Require (Please check those attachments which are included)	ed for This Application:
 C.2. Production schematic flow diagram and water C.4. Wastewater treatment improvements C.7. Additional incidental materials E.4. Additional results of effluent testing G.1. Copies of land use contracts G.3. USGS topographical map G.4. Soils description G.5. Local geology and hydrology H.6. Stormwater drainage map 	ater balance

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